

**COMBINED DECLARATION AND POWER OF ATTORNEY  
FOR PATENT APPLICATION**  
(page 1)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled NANOSTRUCTURE, ELECTRON EMITTING DEVICE, CARBON NANOTUBE DEVICE, AND METHOD OF PRODUCING THE SAME

the specification of which ☐ is attached hereto. ☒ was filed on March 26, 1999 as United States Application No. or PCT International Application No. 09/276,667 and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or §365(b), of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designates at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed:

Country	Application No.	Filed (Day / Mo. / Yr.)	(Yes / No) Priority Claimed
Japan	098114/1998 (Pat.)	27/March/1998	Yes
Japan	047540/1999 (Pat.)	25/February/1999	Yes

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s), or §365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

Application No.	Filed (Day/Mo./Yr.)	Status (Patented, Pending, Abandoned)

I hereby appoint the practitioners associated with the firm and Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and direct that all correspondence be addressed to the address associated with that Customer Number:

**FITZPATRICK, CELLA, HARPER & SCINTO**  
Customer Number: 05514

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole or First Inventor Tatsuya Iwasaki  
Inventor's signature Tatsuya Iwasaki  
Date May 7, 1999 Citizen/Subject of Japan  
Residence 1517-1-C-201, Tsuruma, Machida-shi, Tokyo, Japan  
Post Office Address c/o CANON KABUSHIKI KAISHA  
3-30-2, Shimomaruko, Ohta-ku, Tokyo, Japan

09867674.053101

**COMBINED DECLARATION AND POWER OF ATTORNEY  
FOR PATENT APPLICATION**  
(page 2)

Full Name of Second Joint Inventor Tohru Den  
Inventor's signature Tohru Den  
Date May 10, 1999 Citizen/Subject of Japan  
Residence 1-40-16, Funabashi, Setagaya-ku, Tokyo, Japan  
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3-30-2, Shimomaruko, Ohta-ku, Tokyo, Japan

Full Name of Third Joint Inventor \_\_\_\_\_  
Inventor's signature \_\_\_\_\_  
Date \_\_\_\_\_ Citizen/Subject of \_\_\_\_\_  
Residence \_\_\_\_\_  
Post Office Address \_\_\_\_\_

Full Name of Fourth Joint Inventor \_\_\_\_\_  
Inventor's signature \_\_\_\_\_  
Date \_\_\_\_\_ Citizen/Subject of \_\_\_\_\_  
Residence \_\_\_\_\_  
Post Office Address \_\_\_\_\_

Full Name of Fifth Joint Inventor \_\_\_\_\_  
Inventor's signature \_\_\_\_\_  
Date \_\_\_\_\_ Citizen/Subject of \_\_\_\_\_  
Residence \_\_\_\_\_  
Post Office Address \_\_\_\_\_

Full Name of Sixth Joint Inventor \_\_\_\_\_  
Inventor's signature \_\_\_\_\_  
Date \_\_\_\_\_ Citizen/Subject of \_\_\_\_\_  
Residence \_\_\_\_\_  
Post Office Address \_\_\_\_\_

JOINT  
(AFTER APPLICATION FILED)

## ASSIGNMENT OF PATENT RIGHTS FOR THE UNITED STATES

FOR VALUE RECEIVED, WE, Tatsuya Iwasaki and Tohru Den  
citizens of Japan

residing, respectively, at 1517-1-C-201, Tsuruma, Machida-shi, Tokyo, Japan;  
1-40-16, Funabashi, Setagaya-ku, Tokyo, Japan

hereby sell, assign, transfer and convey unto Canon Kabushiki Kaisha

a corporation of Japan

having a place of business at 30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo, Japan

its successors, assigns and legal representatives (hereinafter called the "Assignee"), the entire right, title and interest, for the United States, in and to certain  
inventions relating to  
NANOSTRUCTURE, ELECTRON EMITTING DEVICE, CARBON NANOTUBE DEVICE, AND  
METHOD OF PRODUCING THE SAME

and described in an application for Letters Patent of the United States filed by us on March 26, 1999  
and which has been accorded Application No. 09/276,667

and in and to said application, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted,  
thereon, and all reissues and extensions thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States to  
issue all Letters Patent upon said inventions to the Assignee or to such nominees as it may designate.

AND we authorize and empower the said Assignee or nominees to invoke and claim for any application for patent or other form of protection  
for said inventions filed by it or them, the benefit of the right or priority provided by the International Convention for the Protection of Industrial Property,  
as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral  
authorization from us.

AND we hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or  
like document which may be required in the United States for any purpose and more particularly in proof of the right of said Assignee or nominees to claim  
the aforesaid benefit of the right or priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any  
convention which may henceforth be substituted for it.

AND we hereby covenant that we have the full right to convey the entire right, title and interest herein assigned and that we have not executed  
and will not execute any agreement in conflict herewith.

AND we hereby covenant and agree that we will communicate to said Assignee or nominees all facts known to us pertaining to said  
inventions, and testify in all legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, to make all rightful oaths  
and declarations and in general perform all lawful acts necessary or proper to aid said Assignee or nominees in obtaining, maintaining and enforcing all  
lawful patent protection for said inventions in the United States.

By: Tatsuya Iwasaki  
Tatsuya Iwasaki

Date: May 7, 1999

By: Tohru Den  
Tohru Den

Date: May 10, 1999

09867611 053404  
TUESDAY 1999

To the Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

TATSUYA IWASAKI and TOHRU DEN

Additional name(s) of conveying party(ies) attached:

☐ Yes☒ No

## 2. Name and address of receiving party(ies):

Name: CANON KABUSHIKI KAISHA

Foreign Address: 30-2, Shimomaruko 3-chome, Ohta-ku

Tokyo 146-8501, Japan

Domestic Address:

City: State ZIP

Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: May 7, 1999 and May 10, 1999

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application Number: 09/276,667

Filing Date: March 26, 1999

B. Title of Invention:

NANOSTRUCTURE, ELECTRON EMITTING  
DEVICE, CARBON NANOTUBE DEVICE, AND  
METHOD OF PRODUCING THE SAME

Additional numbers attached?

☐ Yes☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Fitzpatrick, Cella, Harper &amp; Scinto

30 Rockefeller Plaza

New York, New York 10112-3801

Telephone No.: (212) 218-2100

Facsimile No.: (212) 218-2200

## 6. Number of applications and patents involved:

One

7. Total fee (37 CFR 3.41): \$ 40.00

☒ Enclosed☐ Authorized to be charged to deposit account

## 8. Deposit account number (for deficiency or excess)

06-1205

(Attach duplicate copy of this page if paying by deposit account):

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## 9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and the attached is the original document or is a true copy of the original document.*

Joseph W. Ragusa, Reg. No. 38,586

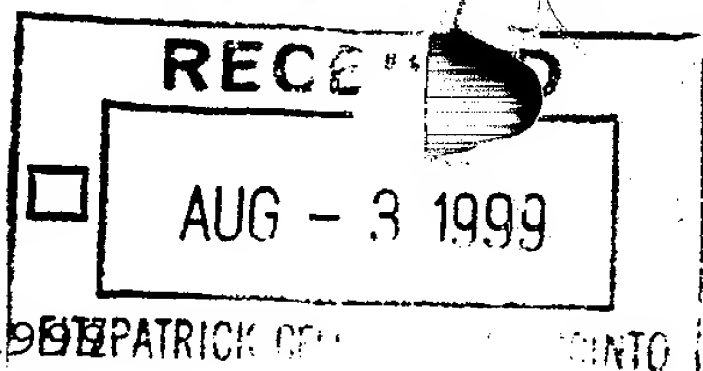
Name of Person Signing

Signature

May 20, 1999

Date

Total number of pages including cover sheet, attachments, and documents: 2



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

JULY 26, 1999 PATRICK DE SCINTO

PTAS  
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UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/21/1999

REEL/FRAME: 009970/0423  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
IWASAKI, TATSUYA

DOC DATE: 05/07/1999

ASSIGNOR:  
DEN, TOHRU

DOC DATE: 05/10/1999

ASSIGNEE:  
CANON KABUSHIKI KAISHA  
30-2, SHIMOMARUKO 3-CHOME, OHTA-KU  
TOKYO 146-8501, JAPAN

SERIAL NUMBER: 09276667  
PATENT NUMBER:

FILING DATE: 03/26/1999  
ISSUE DATE:

DIANE RUSSELE, PARALEGAL  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS